Atty. Docket No.: 21499/00048-US

AMENDMENTS TO THE CLAIMS:

Please amend claims 1, 13, and 40 as follows:

- 1. (Currently Amended) A method of manufacturing a paper of monoand multi-colour ink-jet printable grade by de-watering a paper web from fiber
 pulp slurry, said method containing a step of adding a 2-oxetanone based size to
 said pulp slurry, wherein said 2-oxetanone contains a plurality of groups from a
 plurality of fatty acids, wherein each fatty acid group is a saturated fatty acid
 group consisting of a main chain having 6-22 carbons linked by saturated bonds,
 wherein at least one said fatty acid group comprises a branched chain.
- 2. (Previously Presented) The method of claim I, wherein said 2-oxetanone size is made from a mixture of saturated linear-chain and saturated branched-chain fatty acids.
- 3. (Previously Presented) The method of claim 1, wherein said 2-oxetanone size is made from a mixture of saturated fatty acids with the proportion of linear-chain and branched-chain fatty acids in the order of 1 to 1.
- 4. (Previously Presented) The method of claim 1, wherein the 2-oxetanone size is made from a mixture of fatty acids wherein said at least one branched-chain fatty acid comprises at least 40% of said mixture.
- 5. (Previously Presented) The method of claim 1, wherein said at least one branched-chain fatty acid is isostearic acid.

Atty. Docket No.: 21499/00048-US

- 6. (Original) The method of claim 1, wherein the 2-oxetanone size is added in an amount of 0.05 to 0.25 of the fiber weight in the pulp slurry.
- 7. (Original) The method of claim 1 including further a step of adding a hydrophobizing size onto the de-watered web.
- 8. (Original) The method of claim 1 including further a step of adding a mineral filler material to the slurry.
- 9. (Original) The method of claim 8, wherein the filler material is calcium carbonate.
- 10. (Original) The method of claim 8, wherein the filler material is precipitated calcium carbonate.
- 11. (Original) The method of claim 1 conducted under neutral conditions.
- 12. (Original) The method of claim 1 conducted under alkaline conditions.
- 13. (Currently Amended) A method of manufacturing a paper of monoand multi-colour ink-jet printable grade from fiber pulp slurry into a paper web, the method containing a step of adding a size onto the paper web, wherein the size is a 2-oxetanone based size wherein said 2-oxetanone contains a plurality of groups from a plurality of fatty acids, wherein each fatty acid group is a saturated fatty acid group consisting of a main chain having 6-22 carbons linked by

Atty. Docket No.: 21499/00048-US

saturated bonds, and wherein at least one said fatty acid group comprises a branched chain.

- 14. (Original) The method of claim 13, wherein said 2-oxetanone is made from a mixture of a linear-chain and a branched-chain fatty acids.
- 15. (Original) The method of claim 13, wherein the 2-oxetanone size is made from a mixture of fatty acids with the proportion of linear-chain and branched -chain fatty acids in the order of 1 to 1.
- 16. (Original) The method of claim 13, wherein the 2-oxetanone size is made from a mixture of fatty acids with a fatty acid proportion of 40% or higher of the at least one branched-chain fatty acid.
- 17. (Original) The method of claim 13, wherein the at least one branched-chain fatty acid is isostearic acid.
- 18. (Original) The method of claim 13, wherein the 2-oxetanone size is added in an amount of 0.05 to 0.25 of the fiber weight in the pulp slurry.
- 19. (Original) The method of claim 13, including further a stock sizing step where a 2-oxetanone based stock size is used which is manufactured from greater number than one of fatty acids, the acids having a main chain comprising 6 to 22 carbons linked to each other by saturated bonds, and of which acids at least one is an acid with a branched chain.
- 20. (Original) The method of claim 13 further including a step of adding a filler material into the pulp slurry.

P.08/10

Serial No.: 09/895,160

Attv. Docket No.: 21499/00048-US

- (Original) The method of claim 20, wherein the filler material is 21. calcium carbonate.
- 22. (Original) The method of claim 20, wherein the filler material is precipitated calcium carbonate.
- 23. (Original) The method of claim 13 conducted under neutral conditions.
- 24. (Original) The method of claim 13 conducted under alkaline conditions.
 - 25. (Original) A paper grade made using the method of claim 1.
 - 26. (Original) A paper grade made using the method of claim 13.
 - 27-39. (Cancelled),
- 40. (Currently Amended) A 2-oxetanone based paper size wherein said 2-oxetanone contains a plurality of groups from a plurality of fatty acids, wherein each fatty acid group is a saturated fatty acid group consisting of a main chain having 6-22 carbons linked by saturated bonds, and at least 40% of the chains including a branching,
- 41. (Original) A 2-oxetanone based paper size of claim 40 wherein 40 to 60% of said fatty acids have a branched main chain.

Atty. Docket No.: 21499/00048-US

42. (Original) A 2-oxetanone based paper size of claim 40 wherein said fatty acid with the branched main chain is isostearic acid.